

10/544093

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/544,093
Source: PCT
Date Processed by STIC: 4/28/06

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 04/28/2006
 PATENT APPLICATION: US/10/544,093 TIME: 09:51:40

Input Set : A:\9820US.ST25.txt
 Output Set: N:\CRF4\04282006\J544093.raw

3 <110> APPLICANT: Yednock, Ted
 4 Vasquez, Nicki
 5 Bard, Frederique
 6 Seubert, Peter A.
 8 <120> TITLE OF INVENTION: ACTIVE IMMUNIZATION TO GENERATE ANTIBODIES TO
 SOLUBLE A-BETA FOR
 9 PREVENTION AND TREATMENT OF AMYLOIDOGENIC DISEASE
 11 <130> FILE REFERENCE: 15270J-009820US
 13 <140> CURRENT APPLICATION NUMBER: US 10/544,093
 C--> 14 <141> CURRENT FILING DATE: 2005-08-01 *β.7*
 16 <150> PRIOR APPLICATION NUMBER: WO PCT/US2004/002856
 17 <151> PRIOR FILING DATE: 2004-01-31
 19 <150> PRIOR APPLICATION NUMBER: US 60/444,150
 20 <151> PRIOR FILING DATE: 2003-02-01
 22 <160> NUMBER OF SEQ ID NOS: 27
 24 <170> SOFTWARE: PatentIn version 3.2
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 42
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Homo sapiens
 31 <400> SEQUENCE: 1
 33 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
 34 1 5 10 15
 37 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
 38 20 25 30
 41 Gly Leu Met Val Gly Gly Val Val Ile Ala
 42 35 40
 45 <210> SEQ ID NO: 2
 46 <211> LENGTH: 5
 47 <212> TYPE: PRT
 48 <213> ORGANISM: Artificial
 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: Reversomer of A-beta 1-5
 53 <400> SEQUENCE: 2
 55 Arg Phe Glu Ala Asp
 56 1 5
 59 <210> SEQ ID NO: 3
 60 <211> LENGTH: 17
 61 <212> TYPE: PRT
 62 <213> ORGANISM: Artificial
 64 <220> FEATURE:
 65 <223> OTHER INFORMATION: Artificial peptide derived from residues 323-339
 of ovalbumin.
 67 <400> SEQUENCE: 3

69 Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly

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70 1           5           10           15
73 Arg
77 <210> SEQ ID NO: 4
78 <211> LENGTH: 16
79 <212> TYPE: PRT
80 <213> ORGANISM: Plasmodium sp.
82 <400> SEQUENCE: 4
84 Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn Val
85 1           5           10           15
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 10
90 <212> TYPE: PRT
91 <213> ORGANISM: Hepatitis B virus
93 <400> SEQUENCE: 5
95 Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile
96 1           5           10
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 19
101 <212> TYPE: PRT
102 <213> ORGANISM: Artificial
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Heat Shock Protein 65 fragment
107 <400> SEQUENCE: 6
109 Asp Gln Ser Ile Gly Asp Leu Ile Ala Glu Ala Met Asp Lys Val Gly
110 1           5           10           15
113 Asn Glu Gly
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 14
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Bacille Calmette-Guerin fragment
125 <400> SEQUENCE: 7
127 Gln Val His Phe Gln Pro Leu Pro Pro Ala Val Val Lys Leu
128 1           5           10
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 15
133 <212> TYPE: PRT
134 <213> ORGANISM: Clostridium tetani
136 <400> SEQUENCE: 8
138 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
139 1           5           10           15
142 <210> SEQ ID NO: 9
143 <211> LENGTH: 21
144 <212> TYPE: PRT
145 <213> ORGANISM: Clostridium tetani
147 <400> SEQUENCE: 9
149 Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser
150 1           5           10           15

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153 Ala Ser His Leu Glu
 154 20
 157 <210> SEQ ID NO: 10
 158 <211> LENGTH: 16
 159 <212> TYPE: PRT
 160 <213> ORGANISM: Human immunodeficiency virus
 162 <400> SEQUENCE: 10
 164 Lys Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala
 165 1 5 10 15
 168 <210> SEQ ID NO: 11
 169 <211> LENGTH: 13
 170 <212> TYPE: PRT
 171 <213> ORGANISM: Artificial
 173 <220> FEATURE:
 174 <223> OTHER INFORMATION: PADRE peptide
 177 <220> FEATURE:
 178 <221> NAME/KEY: MISC_FEATURE
 179 <222> LOCATION: (3)..(3)
 180 <223> OTHER INFORMATION: X is cyclohexylalanine, tyrosine, or
 phenylalanine.
 182 <400> SEQUENCE: 11
 W--> 184 Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala
 185 1 5 10
 188 <210> SEQ ID NO: 12
 189 <211> LENGTH: 58
 190 <212> TYPE: PRT
 191 <213> ORGANISM: Artificial
 193 <220> FEATURE:
 194 <223> OTHER INFORMATION: A-beta fragment-tetanus toxoid fusion protein
 197 <220> FEATURE:
 198 <221> NAME/KEY: MISC_FEATURE
 199 <222> LOCATION: (1)..(43)
 200 <223> OTHER INFORMATION: Only a contiguous fragment of residues 1-43 are
 present.
 201 Preferred fragments are 5-10 or 7-10 residues in length.
 203 <400> SEQUENCE: 12
 205 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
 206 1 5 10 15
 209 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
 210 20 25 30
 213 Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Gln Tyr Ile Lys Ala
 214 35 40 45
 217 Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
 218 50 55
 221 <210> SEQ ID NO: 13
 222 <211> LENGTH: 64
 223 <212> TYPE: PRT
 224 <213> ORGANISM: Artificial
 226 <220> FEATURE:
 227 <223> OTHER INFORMATION: A-beta fragment-tetanus toxoid fusion protein
 230 <220> FEATURE:

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231 <221> NAME/KEY: MISC_FEATURE
232 <222> LOCATION: (1)..(43)
233 <223> OTHER INFORMATION: Only a contiguous fragment of residues 1-43 are present.
234 Preferred fragments are 5-10 or 7-10 residues in length.
236 <400> SEQUENCE: 13
238 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
239 1 5 10 15
242 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
243 20 25 30
246 Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Phe Asn Asn Phe Thr
247 35 40 45
250 Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu
251 50 55 60
254 <210> SEQ ID NO: 14
255 <211> LENGTH: 58
256 <212> TYPE: PRT
257 <213> ORGANISM: Artificial
259 <220> FEATURE:
260 <223> OTHER INFORMATION: A-beta fragment-tetanus toxoid fusion protein
263 <220> FEATURE:
264 <221> NAME/KEY: MISC_FEATURE
265 <222> LOCATION: (1)..(43)
266 <223> OTHER INFORMATION: Only a contiguous fragment of residues 1-43 are present.
267 Preferred fragments are 5-10 or 7-10 residues in length.
269 <400> SEQUENCE: 14
271 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
272 1 5 10 15
275 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
276 20 25 30
279 Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Gln Tyr Ile Lys Ala
280 35 40 45
283 Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
284 50 55
287 <210> SEQ ID NO: 15
288 <211> LENGTH: 79
289 <212> TYPE: PRT
290 <213> ORGANISM: Artificial
292 <220> FEATURE:
293 <223> OTHER INFORMATION: A-beta fragment tetanus-toxoid fusion protein
296 <220> FEATURE:
297 <221> NAME/KEY: MISC_FEATURE
298 <222> LOCATION: (1)..(43)
299 <223> OTHER INFORMATION: Only a contiguous fragment of residues 1-43 are present.
300 Preferred fragments are 5-10 or 7-10 residues in length.
302 <400> SEQUENCE: 15
304 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
305 1 5 10 15
308 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
309 20 25 30

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Input Set : A:\9820US.ST25.txt
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312 Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Gln Tyr Ile Lys Ala
313 35 40 45
316 Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu Phe Asn Asn Phe Thr Val
317 50 55 60
320 Ser Phe Trp Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu
321 65 70 75
324 <210> SEQ ID NO: 16
325 <211> LENGTH: 56
326 <212> TYPE: PRT
327 <213> ORGANISM: Artificial
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Padre-A-beta fragment fusion protein
333 <220> FEATURE:
334 <221> NAME/KEY: MISC_FEATURE
335 <222> LOCATION: (3)..(3)
336 <223> OTHER INFORMATION: X is cyclohexylalanine, tyrosine, or
phenylalanine.
338 <220> FEATURE:
339 <221> NAME/KEY: MISC_FEATURE
340 <222> LOCATION: (14)..(56)
341 <223> OTHER INFORMATION: Only a contiguous fragment of residues 14-56 are
present.
342 Preferred fragments are 5-10 or 7-10 residues in length.
344 <400> SEQUENCE: 16
W--> 346 Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala Asp Ala Glu
347 1 5 10 15
350 Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys Leu Val Phe
351 20 25 30
354 Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu Met
355 35 40 45
358 Val Gly Gly Val Val Ile Ala Thr
359 50 55
362 <210> SEQ ID NO: 17
363 <211> LENGTH: 142
364 <212> TYPE: PRT
365 <213> ORGANISM: Artificial
367 <220> FEATURE:
368 <223> OTHER INFORMATION: A-beta-A-beta-A-beta-Padre fusion protein
371 <220> FEATURE:
372 <221> NAME/KEY: MISC_FEATURE
373 <222> LOCATION: (1)..(43)
374 <223> OTHER INFORMATION: Only a contiguous fragment of residues 1-43 are
present.
375 Preferred fragments are 5-10 or 7-10 residues in length.
377 <220> FEATURE:
378 <221> NAME/KEY: MISC_FEATURE
379 <222> LOCATION: (44)..(86)
380 <223> OTHER INFORMATION: Only a contiguous fragment of residues 44-86 are
present.
381 Preferred fragments are 5-10 or 7-10 residues in length.
383 <220> FEATURE:
384 <221> NAME/KEY: MISC_FEATURE
385 <222> LOCATION: (87)..(129)

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/28/2006
PATENT APPLICATION: US/10/544,093 TIME: 09:51:42

Input Set : A:\9820US.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 3
Seq#:16; Xaa Pos. 3
Seq#:17; Xaa Pos. 132
Seq#:18; Xaa Pos. 3
Seq#:19; Xaa Pos. 46

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:2,3,6,7,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27

VERIFICATION SUMMARY DATE: 04/28/2006
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Input Set : A:\9820US.ST25.txt
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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:128
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:32